	Application No.	Applicant(s)	
Nation of Allematics	09/771,049	WALLACE, DOUGLAS ELMER	
Notice of Allowability	Examiner	Art Unit	
	Dwin M Craig	2123	·
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>3/7/05</u> .			
2. A The allowed claim(s) is/are 1,7,10,11,17 and 20-22.			
3. \boxtimes The drawings filed on <u>26 January 2001</u> are accepted by the	e Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority unerstanding a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 			
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this i	iational stage applica	non nom me
* Certified copies not received:	·		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t			back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P		D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	e	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. ⊠ Examiner's Amendn	nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	wance
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EXAMINER'S AMENDMENT

And

REASONS FOR ALLOWANCE

- 1. Claims 1, 7, 10, 11, 17, 20, 21 and 22 are allowed.
- 2. Claims 2-6, 8, 9, 12-16, 18 and 19 are cancelled.
- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. (see 37 CFR 1.126)

The application has been amended as follows:

In Claim 17 line 1 please change "claim 11" to -- claim 4 --.

REASONS for ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The following limitations, in combination with other limitations, are neither anticipated nor made obvious by the prior art. "Simulating trace impedance for application to manufacture a printed circuit board using a Quasi-Monte Carlo model" in combination with "mapping each pseudo-random number R of the sequence of random numbers" and in further combination with "the mapping providing a substantially even hard-coded point-cloud to define a grid of Quasi-Monte Carlo points to provide some regularity in the point cloud over the multi-dimensional space;" The prior art discloses using Quasi-Monte Carlo Models in combination with pseudo-random number sequences for modeling error conditions in surfaces, however, the combination

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of using a *point cloud* and then taking this model to increase the accuracy of a simulation of trace impedance for circuit board manufacturing is neither anticipated nor made obvious by the prior art.

- 4.1 Dependent Claims 7 and 17 are allowed as they depend from an allowed base claim.
- 4.2 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwin M Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P Picard can be reached on (571)272-3749. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DMC

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